

Arkansas Wireless Information Network



Report to the

Joint Interim Committee on Advanced
Communications and Information
Technology

For the period ending September 30, 2005



This report contains the following sections:

Arkansas Wireless Information Network (AWIN) Program Status – a short description of the program, a list of the projects related to the program, and achievements of the program for the month.

Arkansas State Police (ASP) Network Upgrade Project Status – additional detail on the ASP Network Upgrade.

Chemical Stockpile Emergency Preparedness Plan Project (CSEPP) Status -- additional detail on the CSEPP Project.

Three County Pilot Project Status -- additional detail on the pilot effort that will be implemented in Miller, Lonoke and Craighead counties.

Command and Control Radio Deployment Status -- additional detail on the effort to deploy AWIN compatible radios to the 1st responder leadership in each of the counties in the State of Arkansas.

First Responder Training Status -- additional detail on the First Responder Training effort.

800 MHz Band Reconfiguration -- The AWIN system is an 800 MHz system that will require some reconfiguration of the current frequencies.

The FCC ordered the reconfiguration of the 800 MHz band to avoid potentially life-threatening problems where public safety communications equipment may be rendered inoperable.

The following two projects are in the planning stages. Individual sections will be added for each of these projects in the coming months.

Smart Zone Controller – This project will deploy a second Master Site that increases system call processing capabilities.

System Expansion – This project proposes a system expansion that will alleviate the burden currently placed on the system in the southern part of the state. Utilizing additional equipment and/or additional microwave paths to route traffic to the northeast and northwest portions of the system will remove that traffic from the southern part of the state.



Arkansas Wireless Information Network

AWIN is a multi-phased approach to building the infrastructure to complete a statewide interoperable radio system across the counties command and control structure and state agencies. There are several projects that have been developed to ensure that the statewide interoperable radio system is delivered successfully. The current projects are: upgrade the existing Arkansas State Police (ASP) network, upgrade the radio system at the Pine Bluff Arsenal (Chemical Stockpile Emergency Preparedness Plan (CSEPP), pilot program in three counties, training, deployment of radios across the Command and Control structure of each county, and coordination of the 800 MHz reallocation effort. The sections following this overview provide additional information on each of these projects.

Program Director:

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Program Manager:

Name: Penny Rubow

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Updated: 10/06/05

PROJECTS

Project Name	Percentage Complete	On Schedule / No Major Issues	Schedule Slipping / Possible Issues	Behind Schedule / Major Issues
Arkansas State Police Upgrade	59%	-	X	-
Chemical Stockpile Emergency Preparedness Plan (CSEPP)	41%	-	X	-
Three County Pilot	-	-	-	X
1 st Responder Training	30%	-	X	-
Command and Control	20%	-	X	-

Detailed information on each projects budget, schedule and scope may be found later in this report.

Program Funding

The funding information below reflects the funding plan and expenditures for the period of December of 2003 to June of 2005.

Project	Funding	Expenditures to date	Remaining Balance
CSEPP	\$10,559,607.00	\$8,047,425.31	\$2,512,181.69
Command and Control	\$11,030,732.47	\$3,319,976.51	\$7,710,755.96



Tri-County	\$9,536,485.00		\$9,536,485.00
ASP Network Upgrade - Federal Funds	\$29,669,809.93	\$24,710,350.00	\$4,959,459.93
Totals	\$60,796,634.40	\$36,077,751.82	\$24,718,882.58

Program Update

FCC Licensing. FCC Licenses issues continue to impact all of the projects related to the AWIN Program. Chief among these problems are the granting of licenses in Craighead County. The AWIN Steering Committee will meet during October to discuss a plan that will incorporate 700 MHz frequencies based on the recommendations of engineering personnel and the project consultants.



Arkansas State Police Network Upgrade

The Arkansas State Police Network Upgrade will enhance the existing Arkansas State Police (ASP) network to create the backbone for AWIN. This effort will include the upgrade of existing towers, dispatch equipment and radios.

Project Manager

Name: David Baker

Email: david.baker@arkansas.gov

Updated: 09/30/05

SUMMARY

Area	On Schedule / No Major Issues	Schedule Slipping / Possible Issues	Behind Schedule / Major Issues	Reason for Deviation
Schedule	-	-	X	The 150 W Quantar (high-power repeater) solution rework started on 09/01/2005 and is scheduled to be completed on 10/12/2005
Budget	X	-	-	-
Scope	X	-	-	-

SCHEDULE

Of the identified tasks, 69% have been completed. (See comments below)

There are 167 days remaining until project completion.

Phase/Activity	Start Date	End Date	Revised Complete	Complete	Status
Contract	12/8/2003	2/2/2004	-	100%	Complete
Design Review	1/22/2004	6/30/2004	-	100%	Complete
Order Processing	7/1/2004	8/30/2004	-	100%	Complete
Manufacturing	2/27/2004	12/15/2004	-	100%	Complete
Staging	7/29/2004	12/28/2004	-	100%	Complete
Materials Management*	8/20/2004	1/12/2006	12/29/05	94%	On-Track



Phase	Start Date	End Date	Revised Complete	Complete	Status
Civil Work/FNE Installation (Milestone Dates)	7/1/2004	01/28/2006		67%	On-Track
• AREA A (Central Arkansas) FNE Installation Complete**	7/1/2004	08/26/05	11/16/05	27%	On-Track
• AREA B (NE Central Arkansas) FNE Installation Complete	10/12/04	05/06/05	05/19/05	100%	Completed
• AREA C (NE Arkansas) FNE Installation Complete	02/23/05	11/10/05	01/17/06	4%	On-Track
• AREA D (East Central Arkansas) FNE Installation Complete	08/31/04	05/06/05	06/03/05	100%	Completed
• AREA E (SE Central Arkansas) FNE Installation Complete	8/31/04	05/23/05	10/20/05	77%	On-Track
• AREA F (SE Arkansas) FNE Installation Complete	8/31/04	5/23/05	10/27/05	65%	On-Track
• AREA G (SW Arkansas) FNE Installation Complete	8/30/04	9/16/05	01/10/06	12%	Slipping
• AREA H (West Central Arkansas) FNE Installation Complete	08/16/04	09/30/05	10/13/05	100%	On-Track
• AREA I (North Central Arkansas) FNE Installation Complete	08/02/04	03/30/05	05/06/05	100%	Completed
• AREA J (NW Central Arkansas) FNE Installation Complete	09/03/04	08/04/05	12/05/05	19%	On-Track
• AREA K (SW Central Arkansas) FNE Installation Complete	8/11/04	08/26/05	11/29/05	20%	On-Track
• AREA L (NW Arkansas) FNE Installation Complete	02/16/04	3/30/05	03/16/05	100%	Completed
System Optimization	02/03/05	10/16/05	02/01/06		
Acceptance Testing	02/03/05	11/28/05	02/21/06	13%	
Finalize Outstanding Issues***	02/04/04	1/10/2006	03/15/06	4%	On-Track

*Materials Management includes: delivery of final project documentation, final equipment lists.



**Some sub-tasks have been re-organized, which have caused a decrease in the amount of work completed related to Area A.

***Includes Punch List items, final documentation, and service transition.

Comments:

Schedule impact: The cut over schedule is on hold until resolution of the 150 W Quantar issue has been fully implemented. Rework started on 09/01/2005 and is scheduled to be completed on 10/12/2005. Cut over for Areas E & F is scheduled to resume on 10/18/2005.

Regulatory application process: All issues with FCC licensing have been identified and all outstanding licenses are in process with the regulatory agencies at this time.

Schedule Changes: Delays due to the problems with 150 W Quantars has pushed the project end date to 03/15/2006.

October Outlook:

- Complete the rework for the 150 W Quantars.
- Resume Area Cutover with Areas E & F

BUDGET

Total Funded	Expenditures to Date	% of Funding Expended	Status
\$26,669,809.93	\$24,710,350.00	83%	On-track

Comments:

SCOPE

Change Request	Schedule Impact	Budget Impact	Status
2005-013	None		

Comments: No Change Orders for this reporting period.



Chemical Stockpile Emergency Preparedness Program (CSEPP)

The Chemical Stockpile Emergency Preparedness Program (CSEPP) was established to enhance the emergency preparedness in communities around the chemical stockpiles until the stockpiles are eliminated. The Pine Bluff Arsenal communicates daily with Jefferson and Grant counties and the Arkansas Department of Emergency Management to inform them of activities involving the stockpile.

Project Manager:

Name: David Baker

Email: david.baker@arkansas.gov

Updated: 09/30/05

SUMMARY

Area	On Schedule / No Major Issues	Schedule Slipping / Possible Issues	Behind Schedule / Major Issues	Reason for Deviation
Schedule		-	X	The 150 W Repeater issue will impact the schedule for the cutovers for CSEPP.
Budget	X	-	-	-
Scope	X	-	-	-

SCHEDULE

Of the identified tasks, 88% have been completed. (See comments below)

There are 167 days remaining until project completion.

Phase/Activity	Start Date	End Date	Revised Complete	% Complete	Status
Contract	12/8/2003	2/2/2004		100%	Complete
Design Review	1/22/2004	6/30/2004		100%	Complete
Order Processing	7/1/2004	8/30/2004		100%	Complete
Manufacturing	2/27/2004	12/15/2004		100%	Complete
Staging	7/29/2004	12/28/2004		100%	Complete
Materials Management	8/20/2004	1/12/2006	03/15/06	99%	On-Track



Phase/Activity	Start Date	End Date	Revised Complete	% Complete	Status
Civil Work/FNE Installation (Milestone Dates)	7/1/2004	06/20/2005		50%	
• Jefferson Sites Operational	08/31/04	3/21/05	10/20/05	73%	On-Track
• Grant Sites Operational	2/17/04	7/22/05	10/27/05	64%	On-Track

Comments:

Schedule impact: Site construction has been completed with some final grounding and antenna work still to be completed. The cut over schedule is on hold until resolution of the 150 W Quantar issue has been implemented rework started on 09/01/2005. Cutovers are scheduled to resume on 10/18/2005. A new project completion date of 03/15/2006 has been identified.

Regulatory application process: There are no outstanding regulatory process issues for CSEPP at this time.

October Outlook:

- Complete any outstanding grounding issues and antenna work for the new sites
- Complete the rework for the 150 W Quantars
- Cutover for Area E which includes Jefferson County

BUDGET

Total Funded	Expenditures to Date	% of Funding Expended	Status
\$10,559,607.00	\$8,047,425.31	76%	

Comments:

SCOPE

Change Request	Schedule Impact	Budget Impact	Status

Comments: No Change Orders for this reporting period.



Three County Pilot

The Arkansas Wireless Information Network (AWIN) Three County Pilot Project will provide the initial efforts to bring the interoperable network to the county and city emergency responders. The scope of the project is to work with Craighead, Lonoke, and Miller counties in building a fully interoperable radio system, based on Project 25 standards, for all public safety agencies in these counties. This project will provide additional infrastructure needed at the county level, upgraded dispatch units and integration into AWIN. Each county system will be considered part of the overall AWIN system. Further, a repeatable process will be identified that can be used as other counties integrate their infrastructure into AWIN.

Project Manager:

Name: Randy Wilcox

Email: randy.wilcox@arkansas.gov

Updated: 10/03/05

SUMMARY

Area	On Schedule / No Major Issues	Schedule Slipping / Possible Issues	Behind Schedule / Major Issues	Reason for Deviation
Schedule	-	-	X	Planning Stage has been completed. The Payment milestones have been approved by ADEM. A frequency availability issue mandated a change in the frequency plan for Craighead County. AWIN will now deploy one site using 4 channels of 700MHz as well as 800 MHz. This change has delayed the equipment order for Craighead County while the new equipment list for Craighead is being produced. A complete implementation schedule will be produced within 30 days of the equipment order. It is now expected the Pilot Project will not complete before Spring of 2006.
Budget		X	-	The Tri-County project budget has been approved by the Office of Domestic Preparedness. This concludes the last step required for the funding of the ODP



				funds. Each county is following their county approved procurement process to appropriate the expenditure of FY03 and FY05 ODP Grant Funds. FY04 funds were MOU'd back to ADEM and do not require a county appropriation. ADEM has informed AWIN the requested GIF supplemental funding has been approved and will be funded when required.
Scope	X		-	The change from 800 MHz frequency to 700 MHz was mandated by the lack of available 800 MHz in the Craighead County area. This change is a scope neutral change for the Three County Pilot project as it maintains the same functionality with the change as previously planned. This change does require the deployment of 700/800 MHz dual band radios by other entities into the area. The only affected entity should be the Arkansas State Police which has made plans to accommodate this change.

SCHEDULE

Phase/Activity	Start Date	End Date	% Complete	Status
Project Initiation and Planning	07/15/04	7/31/05	100%	Complete
• Preliminary Design	07/15/04	09/10/04	100%	Complete
Lonoke County	08/28/04	6-13-05	100%	Complete
• Presentation of Design Books to County	08/28/04	4-27-05	100%	Complete
• Design Review meeting with County, State of Arkansas, Buford Goff and Associates	4-27-05	5-25-05	100%	Complete
• Presentation of Design Review by County to AWIN Steering Committee for Acceptance	4-27-05	6-27-05	100%	Complete
Craighead County				
• Presentation of Design Books to County	08/28/04	05-23-05	100%	Complete
• Design Review meeting with County, State of Arkansas,	4-27-05	5-31-05	100%	Complete



Buford Goff and Associates				
• Presentation of Design Review by County to AWIN Steering Committee for Acceptance	4-27-05	6-27-05	100%	Complete
Miller County				
• Presentation of Design Books to County	08/28/04	8-04-05	100%	Complete
• Design Review meeting with County, State of Arkansas, Buford Goff and Associates	4-27-05	8-04-05	100%	Complete
• Presentation of Design Review by County to AWIN Steering Committee for Acceptance	4-27-05	8-04-05	100%	Complete
Final Approval of Design	-	8-04-05	100%	Complete
Project Execution	-	TBD	1%	Behind
• Equipment Purchase	-	9-31-05	75%	Behind
• Identify Frequencies	-	11-15-05	100%	Complete
• Implementation	-	TBD	-	-
• Training	-	TBD	-	-
• Cutover	-	TBD	-	-
Project Close-Out	-	TBD	-	-

Comments:

The existing payment Milestones have been approved by ADEM. The move to 700 MHz has not impacted the project from a frequency planning or regulatory nature. It has delayed the equipment purchase while a new equipment list is completed for this county. All the pilot counties equipment must be ordered at one time contractually. ADEM has advised it is possible the new equipment list may require a re-submission to ODP to approve the updated equipment list. If so the equipment order will be held until this approval is made. However, at this time ADEM is researching if this will need to be done. If there does not have to be a re-submission to ODP the equipment order should be placed by mid-October. The final project completion date is pending based on the implementation schedule but it should fall into Spring 2006.

At this point no further activity is required in any of the counties regarding the planning process. The execution phase has begun. Prior to the equipment order Template planning is the only work that can be done. It is well under way in each county. Initial meetings have been held with representatives of each county. A finished template will be ready for review in each county after October 10th, 2005.

Regulatory application process: The site approval process for National Environmental Protection Agency (NEPA), Federal Communications Commission (FCC), and Federal Aviation Administration (FAA) continue on the identified tower sites in the Three County project. This



process is on schedule. Additional filings for 700 MHz frequencies in the Craighead C-18 site are underway. This is not expected to impact the overall schedule.

BUDGET

Total Available Funds	Expenditures to Date	% of Budget Expended	Status
\$ 9,536,485.00	\$0.00	0	

Comments: The current numbers reflect the FY04 ODP funds which are appropriated through ADEM with an MOU signed from each of the pilot counties. Additional ODP funds have been committed to the project by each of the counties. Each county is going through the county approved procurement method to appropriate the FY03 and/or FY05 ODP funds committed to the project. As these funds are appropriated they will be reflected in the budget of the project. Additionally ADEM has advised the supplemental appropriation from the Governor's General Improvement Funds has been approved and will be funded when needed.

SCOPE

Change Request	Schedule Impact	Budget Impact	Status

Comments: The initial scope of the project changed early on to accommodate the additional infrastructure needed to fully implement the Pilot county project. The change has been incorporated into the overall project and is a significant part of the reason for the delay in some of the planning. No additional scope changes have occurred



First Responder Training

The purpose of the training effort for AWIN is to train first responders in the state on the use of the AWIN system. The training effort will include Subscriber (or end user) training, console operator training, and system administration training. Installation of radios will also be tracked along with this effort.

Project Manager:

Name: Danna Erwin

Email: danna.erwin@arkansas.gov

Updated: 09/30/05

SUMMARY

Area	On Schedule / No Major Issues	Schedule Slipping / Possible Issues	Behind Schedule / Major Issues	Reason for Deviation
Schedule	X		-	-
Budget	X	-	-	-
Scope	X	-	-	-

SCHEDULE

Activity	Target Start Date	Target Completion Date	Percentage Complete	Status
Project Initiation and Planning	01/10/05	01/31/05		
• Identify personnel to be trained	01/15/05	01/31/05	100%	Completed
• Develop schedule for training classes	01/31/05	02/28/05	100%	Completed
• Identify common activities and tasks	01/31/05	02/28/05	99%	Identifying as available
• Identify installation needs	01/31/05	12/31/05	100%	Completed
Project Execution				
• Distribute radios	02/16/05	3/31/06	26%	On Track
• Install radios	02/16/05	3/31/06	26%	On Track



Activity	Target Start Date	Target Completion Date	Percentage Complete	Status
• Train the Trainer classes	02/16/05	3/31/06	26%	On Track
• Console Operator classes	02/16/05	3/31/06	26%	On Track
• End User Training Classes	02/16/05	3/31/06	26%	On Track
Project Closeout	3/31/06	4/30/06		

Comments:

Train the Trainer: Training is complete for Troops I, L, B, D, E, F and H. Training for Console Operators and Training the Trainers for the ASP portion of this project have been completed. End User Training for A, J, K, G, and C still need to occur as these Troop areas cutover.

Since training is now to include TriCounty, CSEPP and some tracking of Command and Control, the target completion date has been extended to the end of the first quarter of 2006.

Installation of Radios: Radios have been installed for Troops I, L, B, D, E, F and H. Radios have been pulled from Troop H in preparation for installation for Troop J. Radios have been marked for the agencies/counties/locals, some have been programmed, tagged and distributed, but others are waiting for the programming and tagging.

BUDGET

Total Budget	Expenditures to Date	% of Budget Expended	Status

Comments: A separate budget for the training effort is not provided. All direct training costs are incorporated into the budgets for each of the projects.

SCOPE

Change Request	Schedule Impact	Budget Impact	Status

Comments: No change requests were processed in September.



Command and Control Radio Deployment

The AWIN Command and Control Project is to deploy Project 25 wireless radios to the 1st responder leadership for each county in the State of Arkansas. Further, this project will ensure that voice testing occurs in each county and that training is provided to each user.

Project Manager:

Name: Penny Rubow

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Updated: 09/30/05

SUMMARY

Area	On Schedule / No Major Issues	Schedule Slipping / Possible Issues	Behind Schedule / Major Issues	Reason for Deviation
Schedule		X	-	
Budget	X	-	-	-
Scope	X	-	-	-

SCHEDULE

Phase/Activity	Start Date	Completion	% Complete	Status
Initiation and Planning	2/3/05	6/10/05	90%	Behind
Radio Programming	06/02/05	10/13/05	25%	Slipping
Training	07/01/05	10/15/05	0	Behind
Radio Distribution	06/15/05	10/30/05	20%	Slipping
Testing	06/08/05	10/30/05		
Project Close-Out	11/1/05	11/3/05	0%	

Comments:

Training. The Initiation/Planning and Training phases continue to be behind schedule due to the training plan from the vendor being incomplete. The training schedule has now been provided by the vendor; however additional requirements for the training have been identified. A plan to meet those additional requirements is being developed.

Programming. The radio programming effort is slipping due to the amount of time that is required for the local service shops to install the mobile radios. The issue is further complicated by the



volume of radios (one local service shop servicing multiple counties) that are being delivered state-wide.

BUDGET

Total Available Funds	Expenditures to Date	% of Funds Expended	Status
\$11,030,732.470	\$3,319,976.51	30%	On-Track

Comments:

SCOPE

Change Request	Schedule Impact	Budget Impact	Status

Comments: No change requests were processed during September.



800 MHz Band Reconfiguration

The AWIN system is an 800 MHz system that will require some reconfiguration of the current frequencies.

The FCC ordered the reconfiguration of the 800 MHz band to avoid potentially life-threatening problems where public safety communications equipment may be rendered inoperable.

Project Manager:

Name: David Baker

Email: david.baker@arkansas.gov

Updated: 10/05/05

SUMMARY

Area	On Schedule / No Major Issues	Schedule Slipping / Possible Issues	Behind Schedule / Major Issues	Reason for Deviation
Schedule	X	-	-	-
Budget	X	-	-	-
Scope	X	-	-	-

SCHEDULE

Phase/Activity	Start Date	End Date	Revised Complete	% Complete	Status
Complete Point-of-Contact Form	08/01/2005	08/03/2005		100%	Complete
Submit Request for Planning Funding	TBD				
Document Infrastructure Facilities Inventory	TBD				
Evaluate Proposed New Frequencies	TBD				
Prepare Cost Estimate	TBD				
Negotiate Contract with Nextel	TBD				
FCC Applications Filed and Granted for New Frequencies	TBD				



Nextel Clears Frequencies	TBD				
Acceptance Testing	TBD				
File Channel Surrender Applications with FCC	TBD				
Certify Completion with Nextel	TBD				
Complete Any Additional FCC Filings	TBD				

Comments:

Schedule: Buford Goff & Associates, Inc. has submitted a proposal to DIS to assist the State of Arkansas with the project management, quality assurance, and coordination services for this project. Project Schedule development is pending the review and acceptance of this proposal. The contract for payment would be between BGA and Nextel.

Points of Contact with the Transition Administrator have been established.

October Outlook:

- Review BGA proposal
- Complete and submit Request for Planning Funding

BUDGET

Total Funded	Expenditures to Date	% of Funding Expended	Status
TBD			

Comments: All expenditures for this project should be refunded by Nextel

SCOPE

Change Request	Schedule Impact	Budget Impact	Status

Comments: No Change Orders for this reporting period.